

# RESIDENTIAL SYSTEM SOLUTIONS Ventergy® IAQ-BVS Blending/Filtering Ventilator Kits

PRODUCT SPECIFICATIONS & TECHNICAL DATA

In order to meet ASHRAE 62.2 requirements, each BVS kit includes filters and Constant Airflow Regulators (CAR-II). The CAR-II accurately balances the amount of fresh air brought into the house. The fresh air is then mixed and filtered with the tempered air and distributed throughout the house. Blending/Filtering Ventilators are suitable for **ALL ASHRAE Climatic Zones.** In extreme weather conditions, the ratio of inside air can be increased to offset temperature differences. Kits include an ENERGY STAR certified BVS120 or 200 fan.

Ventergy	y® IAQ-BVS	– <mark>Blend</mark> i	ing/Filtering Ventilat	or Kits*	
Number of Bedrooms	House/Apt Square Feet	CFM Per ASHRAE 62.2	<b>Kit</b> (Components listed in table below)	Part Number	
1	<1500	30		25 714	
1	1501+	45	IAQ-BV3120/314	25714	
2	<1500	45		25 724	
2	1501-3000	60	IAQ-BV3120/324	25724	
	<1500	45		25 724	
3	1501-3001	60	IAQ-BV3200/354-5	25754	
	3001-4500	75	IAQ-BVS200/534-3MAX	25 735	
	1501-3000	75			
4	3001-4500	90	IAQ-BVS200/534-4	25 744	
	4501-6000	105			
	1501-3000	75			
5	3001-4500	90	IAQ-BVS200/534-5	25 754	
	4501-6000	105			



Extra Filter	Extra Filters (sold separately)									
Part Number	Description									
24 918	12 Pack of Replacement Pleated Filters 12" x 12" x 1" (1 filter included with BVS Kit)									
24 919	Optional Electrostatic Permanent Filter 12" x 12" x 1" (Each)									

\*Other kits available. Contact American ALDES for additional options.

BVS K	BVS Kit Components													
				CAR-II	(CFM)			Supp	oly Air		Return Air			Intake
Kit Part Number	Kit	Fan Model	5″	4″	4″	4″	6″ Algrille	6″ Universal Sleeve	6″ Backdraft Damper	6 x 6 x 6 Wye	4″ Deco Grille	4″ Sleeve with Backdraft Damper	4 x 4 x 4 Wye	5″ Wall Hood*
							0				0			
25 714	IAQ-BVS-120/514	BVS120	35/45/50	35/45/50			1	1	1		1	1		1
25 724	IAQ-BVS-120/524	BVS120	35/45/50	35/45/50	35/45/50		1	1	1		2	2		1
25 734	IAQ-BVS-200/534-3	BVS200	40/50/60	35/45/50	35/45/50	35/45/50	2	2	2	1	3	3		1
25 735	IAQ-BVS-200/534-3MAX	BVS200	75/90/105	35/45/50	35/45/50	40/50/60	2	2	2	1	3	3		1
25 744	IAQ-BVS-200/534-4	BVS200	75/90/105	10/20/30	10/20/30	40/50/60	2	2	2	1	4	4	1	1
25 754	IAQ-BVS-200/534-5	BVS200	75/90/105	10/20/30	40/50/60	40/50/60	2	2	2	1	5	5	2	1

\* Galvanized steel standard. Contact American ALDES to request copper or stainless steel.

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# VENTERGY® SERIES FANS BVS120 & BVS200 Blending/Filtering Ventilators

PRODUCT SPECIFICATIONS & TECHNICAL DATA



#### **VENTERGY® SERIES FANS**

Ventergy<sup>®</sup> Series Ventilator Fans represent years of engineering development to combine the energy efficiency and sound performance of a forward-curved fan with the durability and pressure characteristics of a backward-inclined impeller fan.

#### GENERAL

BVS Series Blending Ventilators are highly versatile, continuousduty rated units for residential applications. They meet ENERGY STAR efficiency criteria for low energy consumption. The BVS is designed to provide fresh outdoor air and blend it with indoor air drawn from bedrooms or areas typically not served by a central thermostat before filtering and distributing this air to the main living areas of the home. Thermal comfort is enhanced because warmer air is drawn naturally from the heated living areas to the cooler bedrooms.

The BVS is designed to filter both indoor and incoming fresh air and prevent the introduction of contaminants as a result of unwanted infiltration through leaks in the building's envelope. By slightly pressurizing the structure, the BVS also reduces the risk of backdrafting heating appliances, water heaters, and fireplaces. Quiet, continuous-duty, energy-efficient, external-rotor motors with permanently sealed bearings provide many years of maintenance-free performance.

#### **CONSTRUCTION**

BVS series fans are constructed of heavy-gauge galvanized steel to prevent corrosion caused by moisture. The cabinet is internally lined with acoustic, closed-cell foam insulation that acts as a vapor barrier. This allows for installation directly above living spaces or in unheated plenum spaces without concern for noise or condensation. Duct connecting collars may be relocated on the fan intake manifold to accommodate different installation requirements.

#### FAN AND MOTOR

The fan motor is an energy-efficient, permanent-split-capacitor type of external-rotor design. Totally sealed to protect against moisture and contaminants, it incorporates permanently lubricated and sealed bearings and automatic-reset thermaloverload protection. It is designed and certified for continuous duty or intermittent operation.

The fan uses a backward-inclined impeller design that minimizes dust collection on blades. Each fan is statically and dynamically balanced at the factory to eliminate vibration and ensure quiet operation. The entire motor and fan assembly is mounted on a drop-down hinged access panel for simple service and inspection, and it can be removed from the fan without disassembling the duct connections.

### **FAN CONTROLS**

The fan can be operated manually or automatically by a programmable timer, dehumidistat, or other appropriate electronic switch device. The fan may also be operated in conjunction with a variable speed control.

#### FILTERS

Each BVS comes standard with a disposable-type pleated MERV 8 filter to comply with ASHRAE 62.2 and ENERGY STAR standards. Permanent, washable, electrostatic-type filters are also available.

#### LOCATING AND INSTALLING THE FAN

The compact dimensions and versatile mounting options permit installation above drop ceilings, between ceiling joists, or within a small soffit location. They can be installed horizontally or vertically.

### ACCESSORIES

Accessories are available to accommodate applications ranging from single-bedroom apartments to five-bedroom houses. Accessories are included with the BVS only when ordered as a Ventergy<sup>®</sup> Series Continuous Duty IAQ Ventilation Kit.

## AIRFLOW CONTROL OPTION AND BALANCING

Each return and fresh air duct take-off can accommodate an automatic self-balancing constant airflow regulator (CAR-II) that ensures precise flow rates at each point, independent of duct lengths. A passive control element in each duct run inflates or deflates automatically in response to system pressure to maintain specified airflow rates.

#### PERFORMANCE

Fan airflow and energy performance shall be tested in accordance with HVI standards.





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# **Dimensions & Performance**



E	ELECTRICAL AND AIRFLOW PERFORMANCE*											
Madal	Nominal	115	Watts at		CFM vs	Static P	ressure					
Model	RPM	nr	0.2" Ps	0"	0.2"	0.4"	0.6"	0.8"				
BVS120	2146	0.06	43	186	152	122	94	67				
BVS200	2960	0.08	66	261	236	210	186	162				

\*Certified airflow rating at 0.2" w.g. is derated from actual test results per HVI Certification procedure 920.

# **Typical Specification**

#### **BLENDING VENTILATOR FAN**

American ALDES Ventilation Corporation, Florida (1-800-255-7749). ALDES model BVS120 or BVS200.

#### GENERAL

The fan shall be continuous-duty type with a backward-inclined centrifugal blower housed in a multi-port enclosure specifically designed for residential and commercial use. The fan shall be safety tested per UL standards and bear the agency listing certified mark, and be approved for use over cooking areas and tub/shower enclosures when used with GFCI branch circuiting. The fan must meet ENERGY STAR performance criteria for energy efficiency and bear the ENERGY STAR mark.

#### CONSTRUCTION

The housing shall be of a minimum 22-gauge steel with a G90 galvanized coating or baked enamel paint finish. All interior surfaces of the housing shall be lined with a non-porous, closed-cell foam insulation to allow installation above ceilings and in unheated spaces without concern for condensation or absorption of water. The unit shall not exceed 8" in total height to allow mounting within ceiling/floor joist spaces. The blower shall be a centrifugal-type, external-rotor motor with backward-inclined impeller blades. The motor and blower assembly shall be mounted on a drop-down hinged access panel so as to permit removal from the housing without disassembly of the ducting connections. The filter must be accessible from a hinged drop-down access panel adjacent to the motor access. The intake duct connections shall be dimensioned so as to accept constant airflow regulators with a secure fit. The intake duct dimensions shall be nominal 4" and 5" round. The fan housing and intake duct collar(s) shall be designed to allow removal and repositioning in the field to accommodate different installation

**ELECTRICAL DATA – BVS120 & BVS200** 

120 V, 60 Hz., 0.35/0.53 Amp., 43/66 W Max., 2146/2960 RPM

Above ratings are intended for sizing electrical wiring only. Actual consumption will be lower.



requirements. Mounting brackets shall be provided for attachment to the fan housing, allowing vertical or horizontal installations.

#### MOTOR

The motor shall be direct-drive, external-rotor, high-efficiency, PSC type with permanently lubricated and sealed ball bearings and designed for continuous operation. The motor shall have automatic thermal-overload protection and must be totally sealed to protect against contaminants and moisture. Naturally vented air-over motors are not acceptable.

#### ELECTRICAL

The fan shall operate on 115V, 50/60Hz, single-phase current. The motor shall be listed for use with a solid-state speed control.

#### FILTER

The fan shall be provided with an approved 1" pleated panel type disposable filter meeting the ASHRAE standard MERV 8 rating. An optional permanent electrostatic filter shall be provided where specified. The filter shall be fully removable without the use of any tools and without disassembling internal partitions.

#### CONSTANT AIRFLOW REGULATORS

When specified, each return air and fresh air intake collar shall accommodate an integral constant airflow control device that operates on duct system pressures and maintains specified airflow rates over a range of 0.2" to 0.8" Ps w.g. Devices shall be installed in the duct connections and calibrated at the factory to the airflow rates as indicated on the drawings. The device shall not exhaust any air to the outside during operation.

## WARRANTY

The entire unit is guaranteed for three (3) years, from date of shipment, against all manufacturing defects, provided the material has been installed and operated per manufacturer's instructions and under normal conditions. Warranty is limited to the repair or replacement of the material upon its return freight paid to our factory. This warranty is not transferable and is limited to the original end user.

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# AIRFLOW & ZONE CONTROLS CAR-II Constant Airflow Regulator

PRODUCT SPECIFICATIONS & TECHNICAL DATA



#### **GENERAL**

The model CAR-II Constant Airflow Regulator is a modulating orifice that automatically regulates airflows in duct systems to constant levels. The passive control element responds to duct pressure and requires no electric or pneumatic sensors or controls.

The CAR-II compensates for changes in duct pressure caused by thermal stack effect, building pressure, dust-clogged filters, etc. The CAR-II also provides a low-cost solution to balancing forced-air systems for heating, air conditioning and ventilation, eliminating the need for on-site balancing. The CAR-II will regulate airflow in supply, return, or exhaust duct systems.

The active control element of the CAR-II is a unique aerofoil. Using Bernoulli's Principle, the aero-wing damper lifts in response to increasing static pressure. This operation regulates the free-area opening through the control, resulting in maintenance of velocity and specific airflow set points. Each CAR-II is designed and produced for control of air in temperatures ranging from -25°F to 140°F (-32°C to 60°C).

#### **CONSTRUCTION**

The round CAR-II is constructed of a UL94V-0 ABS plastic, and it is UL 2043 safety classified and labeled for flame and smoke generation. The assembly is sized to fit inside standard rigid round ducting, as well as fittings such as take-offs, tees, etc. A lip or flex-type ring seal gasket around the circumference ensures a tight, no-leak fit.

#### PERFORMANCE

The CAR-II airflow regulators control airflow accurately to within 10% of rated flow (15% for units 50 CFM or less) throughout the target operating pressure range of 0.2 to 0.8 in. w.g. (50 to 200 Pa). Each CAR-II is factory tested and calibrated to the rated set point before shipping. On-site field adjustment of airflow set points can be made for supply air applications (contact factory). Each diameter of CAR-II regulator is available in multiple factory-calibrated set points (see performance curves).

### MAINTENANCE

The CAR-II needs no maintenance when used in normal conditions. There is no risk of dust deposit or obstruction because the CAR-II has no airways subject to clogging. If the intended application includes air heavily loaded with grease or dust, a fitting with an access panel or door, such as that used for flame dampers, should be provided.

### WARRANTY

Guaranteed for 5 years, from date of shipment, against all defects in material or workmanship, provided that the material has been installed and used under normal conditions. This warranty is limited to the repair or replacement of the material.



Constant airflow is achieved by controlling the free area through the device. At minimum static pressure, the aero-wing is parallel to the air stream. As the static pressure increases, the aero-wing lifts, reducing the amount of free area through the regulator. At the same time, higher static pressure increases the air velocity resulting in CONSTANT AIRFLOW. This occurs regardless of pressure differences in the range of 0.2 to 0.8 in. w.g. (50 to 200 Pa). The air velocity in the duct is in the range of 60 to 700 ft/min. (0.3 to 3.5 m/s).



# **Typical CAR-II Applications**

- Supply and exhaust air in offices.
- Balancing exhaust and supply airflows in high-rise building duct risers.
- Bathroom exhaust in nursing homes, hotels, motels, dormitories, apartment buildings, offices, etc.
- Clean room air supply balancing for ceiling filter modules. Maintains constant airflow even as filter resistance increases.
- Regulation of make-up air.
- Controlling conditioned air to sealed crawlspaces.

- Balancing supply airflow from packaged roof-top A/C units.
- Balancing supply and exhaust of heat recovery ventilation systems.
- Regulating outdoor air injection from central supply fan into individual room fan coil units or heat pumps.
- Balancing airflows on series-fan-powered terminal unit systems.
- Supply air to sleeping quarters in military facilities, submarines, etc.

# **Typical Specification**

Model CAR-II Constant Airflow Regulators by American ALDES Ventilation Corporation, Bradenton, Florida, shall solely operate on duct pressure and require no external power supply. Each regulator shall be pre-set and factory calibrated, requiring no field adjustment to the airflows as indicated on the schedule, and shall be rated for use in air temperatures ranging from -25° to 140°F (-32° to 60°C.)

Constant airflow regulators shall be capable of maintaining constant airflow within +/- 10% of scheduled flow rates (15% for units 50 CFM or less), within the operating range of 0.2 to 0.8 in. w.g. differential pressure, or 0.6 to 2.4 in. w.g. on high-pressure models (CAR-II-HP), or 0.1 to 0.42 in. w.g. on low-pressure models (CAR-II-LP). Regulators shall be provided as an assembly consisting of a 94V-0 UL ABS plastic body housed within a round sleeve for mounting in round duct. Each round sleeve must be fitted with a lip gasket to ensure perimeter air tightness with the interior surface of the duct. All regulators must be classified per UL 2043 and carry the UL mark indicating compliance. All Constant Airflow Regulators will require no maintenance and must be warranted for a period of no less than five years. Constant Airflow Regulators shall be installed in tight ducting systems in accordance with all applicable codes and manufacturer's instructions.



# **CAR-II Airflow Performance Data**

Performance charts reflect airflow measurements taken at 68°F (20°C) at 1 atmosphere pressure. The CAR-II is designed for system pressures between 0.2 and 0.8 in. w.g. Models are also available for applications with system pressures between 0.1 and 0.42 in. w.g (CAR-II-LP) and above 0.8 in. w.g. (CAR-II-HP).



CAR-II



# **CAR-II Airflow Performance Data**

Performance charts reflect airflow measurements taken at 68°F (20°C) at 1 atmosphere pressure. The CAR-II is designed for system pressures between 0.2 and 0.8 in. w.g. Models are also available for applications with system pressures between 0.1 and 0.42 in. w.g (CAR-II-LP) and above 0.8 in. w.g. (CAR-II-HP).



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CAR-II



# Algrilles

# Supply/Exhaust Grilles

PRODUCT SPECIFICATIONS & TECHNICAL DATA





# **Dimensional Data**

P/N	SIZE	А	В	С	D
40 103	3″	2-7/8″	1″	1″ to 1-7/8″	4-5/8″
40 104	4"	3-1/4″	1″	1-7/8" to 3-1/4″	5-7/8″
40 105	5"	3-1/2″	1-1/4″	2" to 3-1/4"	6-1/4″
40 106	6"	4-11/16″	1″	1-3/4" to 3-1/4"	7-1/2″
40 108	8"	6 -3/4″	1-3/4″	2-1/2" to 3-3/4"	9-5/8″

## ALGRILLES

- Supply/Exhaust
- Available in 3", 4", 5", 6", & 8"
- Fully adjustable for variable airflow capacity
- Rotating center-adjustment cone
- Easy to install
- Durable white plastic (polypropylene co-polymer with HB UL rating)

## HOW TO USE THE ALGRILLE

The center adjustment cone allows for variable ventilation capacity.

After installing your Algrille vents and connecting them to the ductwork from your ventilator, begin balancing the ventilation ports by increasing openings on the most distant Algrille until the flow is satisfactory throughout the building. Usually two rounds of balancing will provide the desired air distribution.

## INSTALLATION

Compression-spring tab clips the Algrille into 4", 5", 6", or 8" round duct.



Foam for tight seal and sound attenuation.



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Universal Sleeves

For Connecting Grilles to Flex Duct Work

PRODUCT SPECIFICATIONS & TECHNICAL DATA



	DIMENSIONAL DATA												
PART NUMBER	DESCRIPTION	Dia. A	В	С	Dia. D	Dia. E	Dia. F	G	н				
22 094	4" Dia. Sleeve	9″	5-1/2″	7″ x 9″	5″	4-1/8″	4″	1/2″	1″				
22 095	5" Dia. Sleeve	10″	5″	8″ x 10″	5-3/4″	5-1/8″	4-15/16″	1/2″	1″				
22 096	6" Dia. Sleeve	11″	5-1/2″	9″ x 11″	7″	6″	5-7/8″	1/2″	1″				
22 098	8" Dia. Sleeve	11″	7-1/4″	11″ x 11″	9-1/8″	8-1/8″	8″	1/2″	1″				

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## AIRFLOW & ZONE CONTROLS Backdraft Dampers Spring-Loaded Backdraft Dampers

PRODUCT SPECIFICATIONS & TECHNICAL DATA

## DESCRIPTION

- 20-gauge galvanized steel housing.
- Aluminum spring-loaded butterfly damper blades.
- Damper seals against EDPM rubber gasket in closed position for minimal leakage.
- Gasket designed for use in temperatures from -22°F to180°F.
- Requires airflows of 0.04 to 0.08 in. w.g. to begin to open.
- May be installed in any position. The 14" and 16" models require adjusting spring tension if used in vertical position, with airflow down.
- The entire assembly inserts into duct for simple installation.
- Exterior foam gaskets provide a tight seal against interior surface of duct.

PART NUMBER	DIAMETER (NOMINAL)
99 023	4" (100 mm)
99 024	5" (125 mm)
99 025	6" (150 mm)
99 035	7" (175 mm)
99 026	8" (200 mm)
99 027	10" (250 mm)
99 028	12" (315 mm)
99 036	14" (355 mm)
99 037	16" (400 mm)

**NOTE:** Not recommended for use with clothes dryer, unless proper provisions are made for regular cleaning. For this application, request P/N 99 504, 4" diameter cape backdraft damper.





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DIM	ENSIONA	L DATA	
PART NUMBER	DIA. A	DIA. B	DIA. C
93 081	4″	3″	3″
93 082	4″	4″	4″
93 087	5″	4″	4″
93 083	5″	5″	5″
93 086	6″	4″	4″
93 085	6″	5″	5″
93 084	6″	6″	6″
93 090	8″	8″	8″
93 091	8″	6″	6″
93 094	10″	10″	10″
93 095	10″	8″	8″

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# Deco Grilles

White Plastic Grilles

PRODUCT SPECIFICATIONS & TECHNICAL DATA







	DIMENSIONAL DATA											
PART NUMBER	SIZE	DESCRIPTION	A B		С	D	E	F				
22 073	3"	White Plastic ABS Grille	3"	4-3/4"	1/2"	5/8"	1-7/8″	4-3/4″				
22 079	4"	White Plastic ABS Grille	3-7/8"	5-3/4"	11/16"	1"	2-1/2″	6-1/4″				
22 078	5"	White Plastic ABS Grille	4-7/8"	6-1/2"	5/8"	1-1/4"	3-1/8″	7-3/4″				

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**Universal Sleeves** 

With Gravity Backdraft Dampers

PRODUCT SPECIFICATIONS & TECHNICAL DATA



	DIMENSIONAL DATA											
PART NUMBER	DESCRIPTION	Dia. A	В	С	Dia. D	Dia. E	Dia. F	G	н			
22 194	4" Dia. Sleeve	9″	5-1/2″	7″ x 9″	5″	4-1/8″	4″	1/2″	1″			
22 195	5" Dia. Sleeve	10″	5″	8″ x 10″	5-3/4″	5-1/8″	4-15/16"	1/2″	1″			
22 196	6" Dia. Sleeve	11″	5-1/2″	9″ x 11″	7″	6″	5-7/8″	1/2″	1″			

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PRODUCT SPECIFICATIONS & TECHNICAL DATA



# High-Performance Wall Hoods With Screens or Gravity Dampers

### DESCRIPTION

American ALDES High-Performance Wall Hoods are designed for use in exhaust or supply ventilation systems and fresh air kits. They are engineered to accommodate high airflow pressure and velocities found in premium fan and dryer vent systems. Wall hoods are available as screened or dampered versions. Each wall hood is designed to maximize airflow and minimize noise.

### **CONSTRUCTION**

Wall Hoods are available in heavy-gauge G90 galvanized steel, 314 2B finish stainless steel, or solid copper type CA 110.

### SCREENED WALL HOODS

1/4" galvanized steel mesh. Suitable for use in exhaust or supply ventilation systems and fresh-air kits.

### DAMPERED WALL HOODS

For use in exhaust ventilation and dryer venting systems. A magnetic-catch damper ensures a tight closure when the fan is not running and eliminates damper flutter in windy conditions. These hoods should be used when backdraft dampers are not present at other locations within the duct system.



**GALVANIZED STEEL** 





**STAINLESS STEEL** 

COPPER



MODEL	Galvanized**		Stainless Steel		Сор	Dimensions						
MODEL	Dampered*	Screened	Dampered*	Screened	Dampered*	Screened	Differigions					
Size	P/N	P/N	P/N	P/N	P/N	P/N	А	В	С	D	Е	F
4"	22 404	22 304	22 404SS	22 304SS	22 404COP	22 304COP	4″	3″	3.0″	4.5″	8″	6″
5"	22 405	22 305	22 405SS	22 305SS	22 405COP	22 305COP	5″	3″	3.0″	5.0″	9″	8″
6"	22 406	22 306	22 406SS	22 306SS	22 406COP	22 306COP	6″	3″	4.0″	6.0″	10″	9″
8"	22 408	22 308	22 408SS	22 308SS	22 408COP	22 308COP	8″	3″	5.0″	8.0″	12″	11″
10"	22 410	22 310	22 410SS	22 310SS	22 410COP	22 310COP	10″	3″	6.5″	10.0″	14″	13″
12"	22 412	22 312	22 412SS	22 312SS	22 412COP	22 312COP	12″	3″	8.5″	12.0″	16″	15″

\*For wall hoods with screens and backdraft dampers, add backdraft damper to screen model. See Backdraft Damper spec sheet for backdraft damper part numbers. \*\*Galvanized Steel Items (4" to 8" are 26 gauge; 10" and 12" are 24-gauge).

Materials: Galvanized Steel G-90, Copper Type Ca110, Stainless Type 314-2B Finish SMACNA GAUGE ACCORDING TO SIZE. Damper: Aluminum sheet, 0.020"

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